

Prayoon Rangsub 2012: Effectiveness on Competency - Based Accreditation Unit of Automotive Techniques Specialization. Doctor of Philosophy (Vocational Education), Major Field: Vocational Education, Department of Vocational Education. Thesis Advisor: Assistant Professor Jularat Wattana, Ph.D. 245 pages.

The purposes of this research were to 1) synthesize the competency-based accreditation unit of automotive techniques specialization (AUATS) 2) study the effectiveness of AUATS.

The AUATS were developed and synthesized upon the concepts of Lloyd and Cook (1993). The quantitative exploratory research was employed for research design. The populations and samples were students who enrolled in the program of occupational experiences accreditation at the higher certificate of vocational education level. The assessment of the AUATS effectiveness was based on the data from 3 groups of subjects 1) 26 students from formal vocational private school, 2) 27 students from the program of occupational experiences accreditation, and 3) 26 electrical auto mechanics from the B-Quik Training Center as benchmarking. The research instruments were composed of the 1) achievement test of knowledge and skills, and 2) observations of the work habits. Frequency percentage and one-way ANOVA were the statistical techniques for data analyzed.

The AUATS were synthesized upon the seven competencies; 1) ignition systems, 2) charging systems, 3) lighting systems, 4) facilitating systems, 5) air contain systems, 6) fuel control systems and 7) fuel control injection systems. Moreover, the AUATS were effective to distinguish the ones who are in benchmarking group from the one who are not.

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Thesis Advisor's signature